

Styron EMERGE[®],ç 7100 Polycarbonate (PC) / Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Overview: EMERGE[®],ç PC/ABS 7100 advanced resin exhibits a balance of properties between impact strength, heat resistance and processability. Its superior natural base color and lot-to-lot color consistency makes it ideally suited for producing very consistent colored parts. It has excellent flow and is ideal for injection molding in thin-wall applications, such portable electronic devices. Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-EMERGE-7100-Polycarbonate-PC-Acrylonitrile-Butadiene-Styrene-ABS.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	4.5 g/10 min	4.5 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 Å°C	@Load 8.38 lb, Temperature 446 Å°F	
	25 g/10 min	25 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 Å°C	@Load 11.0 lb, Temperature 500 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	Injection Molded; ASTM D785
	@Thickness 3.20 mm	@Thickness 0.126 in	
Tensile Strength, Yield	50.3 MPa	7300 psi	50 mm/min, Injection Molded; ASTM D638
	@Thickness 3.20 mm	@Thickness 0.126 in	
Elongation at Break	50 %	50 %	Injection Molded; ASTM D638
	@Thickness 3.20 mm	@Thickness 0.126 in	
Elongation at Yield	4.0 %	4.0 %	Injection Molded; ASTM D638
	@Thickness 3.20 mm	@Thickness 0.126 in	
Tensile Modulus	2.10 GPa	305 ksi	Injection Molded; ASTM D638
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flexural Strength	80.0 MPa	11600 psi	Injection Molded; ASTM D790
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
	2.34 GPa @Thickness 3.20 mm	339 ksi @Thickness 0.126 in	Injection Molded; ASTM D790
Izod Impact, Notched	2.90 J/cm @Thickness 3.20 mm, Temperature -30.0 Â°C	5.43 ft-lb/in @Thickness 0.126 in, Temperature -22.0 Â°F	Injection Molded; ASTM D256
	4.80 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	8.99 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	76.0 Âµm/m-Â°C	42.2 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	116 Â°C @Thickness 3.20 mm	241 Â°F @Thickness 0.126 in	Unannealed, Injection Molded; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Â°C @Thickness 3.20 mm	203 Â°F @Thickness 0.126 in	Unannealed, Injection Molded; ASTM D648
Vicat Softening Point	133 Â°C @Load 1.02 kg	271 Â°F @Load 2.25 lb	Rate B (120Â°C/h); ASTM D1525
Flammability, UL94	HB @Thickness 1.00 mm	HB @Thickness 0.0394 in	

Processing Properties	Metric	English	Comments
Melt Temperature	238 - 266 Â°C	460 - 511 Â°F	
Mold Temperature	48.9 - 90.6 Â°C	120 - 195 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China